

Title (en)

Efficient, low pressure ratio propeller for gas turbine engines

Title (de)

Wirksamer, Niederdruck-Verhältnispropeller für Gasturbinenmotoren

Title (fr)

Soufflante à faible taux de compression et haute efficacité pour moteur à turbine à gaz

Publication

EP 2543867 A2 20130109 (EN)

Application

EP 12174431 A 20120629

Priority

US 201113176365 A 20110705

Abstract (en)

A gas turbine engine includes a spool (30), a turbine (46) coupled to drive the spool (30), and a propulsor (42) that is coupled to be driven by the turbine (46) through the spool (30). A gear assembly (48) is coupled between the propulsor (42) and the spool (30) such that rotation of the turbine (46) drives the propulsor (42) at a different speed than the spool (30). The propulsor (42) includes a hub (76) and a row (72) of propulsor blades (74) that extends from the hub (76). The row (72) includes no more than 20 of the propulsor blades (74).

IPC 8 full level

F02K 3/06 (2006.01)

CPC (source: EP US)

F01D 17/14 (2013.01 - US); **F02K 1/06** (2013.01 - EP US); **F02K 3/06** (2013.01 - EP US); **F05D 2220/327** (2013.01 - EP US); **F05D 2260/4031** (2013.01 - US)

Cited by

EP3951137A1; CN106870167A; US10605202B2; US11073157B2; EP3070266A3; EP3477051A1; EP3889391A1; US10358924B2; US11118459B2; US11466572B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2543867 A2 20130109; **EP 2543867 A3 20161019**; **EP 2543867 B1 20220302**; EP 4027002 A1 20220713; US 10233868 B2 20190319; US 10288009 B2 20190514; US 10605202 B2 20200331; US 2013008146 A1 20130110; US 2013014488 A1 20130117; US 2016377027 A1 20161229; US 2017191449 A1 20170706; US 2018023511 A1 20180125; US 2018230943 A1 20180816; US 9121368 B2 20150901; US 9506422 B2 20161129; US 9926885 B2 20180327

DOCDB simple family (application)

EP 12174431 A 20120629; EP 22159497 A 20120629; US 201113176365 A 20110705; US 201213484858 A 20120531; US 201615252689 A 20160831; US 201615252811 A 20160831; US 201715709540 A 20170920; US 201815936552 A 20180327